a housing;

a cathode within the housing;

an anode within the housing; and

a separator electrically separating the anode and the cathode;

wherein the battery has an (S/V)2 value of greater than 0.70 mm^{-2}.

5. (Amended) The battery of claim 4, wherein the battery has an $(S/V)^2$ value of greater than 0.75 mm^{-2}.

6. (Amended) The battery of claim 4, wherein the battery has an $(S/V)^2$ value of greater than 0.8 mm^{-2}.

7. (Amended) A primary alkaline AAAA battery, comprising:

a housing;

a cathode within the housing;

an anode within the housing; and

a separator electrically separating the anode and the cathode;

wherein the battery has an $(S/V)^2$ value of greater than 1.2 mm^{-2}.

8. (Amended) The battery of claim 7, wherein the battery has an $(S/V)^2$ value of greater than 1.4 mm^{-2}.

9. (Amended) The battery of claim 7, wherein the battery has an $(S/V)^2$ value of greater than 1.5 mm^{-2}.

10. (Amended) A primary alkaline C battery, comprising:

a housing;

a cathode within the housing;

an anode within the housing; and

a separator electrically separating the anode and the cathode;

wherein the battery has an $(S/V)^2$ value of greater than 0.110 mm^{-2}.

11. (Amended) The battery of claim 10, wherein the battery has an $(S/V)^2$ value of greater than 0.120 mm^{-2}.

12. (Amended) The battery of claim 10, wherein the battery has an $(S/V)^2$ value of greater than 0.125 mm^{-2}.

13. (Amended) A primary alkaline D battery, comprising:
a housing;
a cathode within the housing;
an anode within the housing; and
a separator electrically separating the anode and the cathode;
wherein the battery has an $(S/V)^2$ value of greater than 0.065 mm^{-2}.

14. (Amended) The battery of claim 13, wherein the battery has an $(S/V)^2$ value of greater than 0.07 mm^{-2}.

15. (Amended) The battery of claim 13, wherein the battery has an $(S/V)^2$ value of greater than 0.075 mm^{-2}.

16. (Amended) A primary alkaline AA battery, comprising:
a housing;
a cathode within the housing;
a single cavity anode within the cathode; and
a separator electrically separating the anode and the cathode;
wherein the battery has an $(S/V)^2$ value of greater than 0.15 mm^{-2}.

17. (Amended) The battery of claim 16, wherein the battery has an $(S/V)^2$ value of greater than 0.20 mm^{-2}.

18. (Amended) The battery of claim 16, wherein the battery has an $(S/V)^2$ value of greater than 0.30 mm^{-2}.

19. (Amended) A primary alkaline AAA battery, comprising:

a housing;

a cathode within the housing;

a single cavity anode within the cathode; and

a separator electrically separating the anode and the cathode;

wherein the battery has an $(S/V)^2$ value of greater than 0.3 mm^{-2}.

20. (Amended) The battery of claim 19, wherein the battery has an $(S/V)^2$ value of greater than 0.4 mm^{-2}.

21. (Amended) The battery of claim 19, wherein the battery has an $(S/V)^2$ value of greater than 0.5 mm^{-2}.

22. (Amended) A primary alkaline AAAA battery, comprising:

a housing;

a cathode within the housing;

a single cavity anode within the cathode; and

a separator electrically separating the anode and the cathode;

wherein the battery has an $(S/V)^2$ value of greater than 0.6 mm^{-2}.

23. (Amended) The battery of claim 22, wherein the battery has an $(S/V)^2$ value of greater than 0.8 mm^{-2}.

24. (Amended) The battery of claim 22, wherein the battery has an $(S/V)^2$ value of greater than 1.0 mm^{-2}.

25. (Amended) A primary alkaline C battery, comprising:

a housing;

a cathode within the housing;

a single cavity anode within the cathode; and

a separator electrically separating the anode and the cathode;

wherein the battery has an $(S/V)^2$ value of greater than 0.06 mm^{-2}.

26. (Amended) The battery of claim 25, wherein the battery has an $(S/V)^2$ value of greater than 0.08 mm^{-2}.

27. (Amended) The battery of claim 25, wherein the battery has an $(S/V)^2$ value of greater than 0.10 mm^{-2}.

28. (Amended) A primary alkaline D battery, comprising:

a housing;

a cathode within the housing;

a single cavity anode within the cathode; and

a separator electrically separating the anode and the cathode;

wherein the battery has an $(S/V)^2$ value of greater than 0.03 mm^{-2}.

29. (Amended) The battery of claim 28, wherein the battery has an $(S/V)^2$ value of greater than 0.04 mm^{-2}.

30. (Amended) The battery of claim 28, wherein the battery has an $(S/V)^2$ value of greater than 0.05 mm^{-2}.

47. (Amended) A battery comprising:

a housing;

a first electrode within the housing;

a second electrode within the first electrode, the second electrode including nine lobes; and

a separator between the first electrode and the second electrode,

wherein the first electrode contacts an entire surface of the separator.

51. (Amended) A battery comprising:

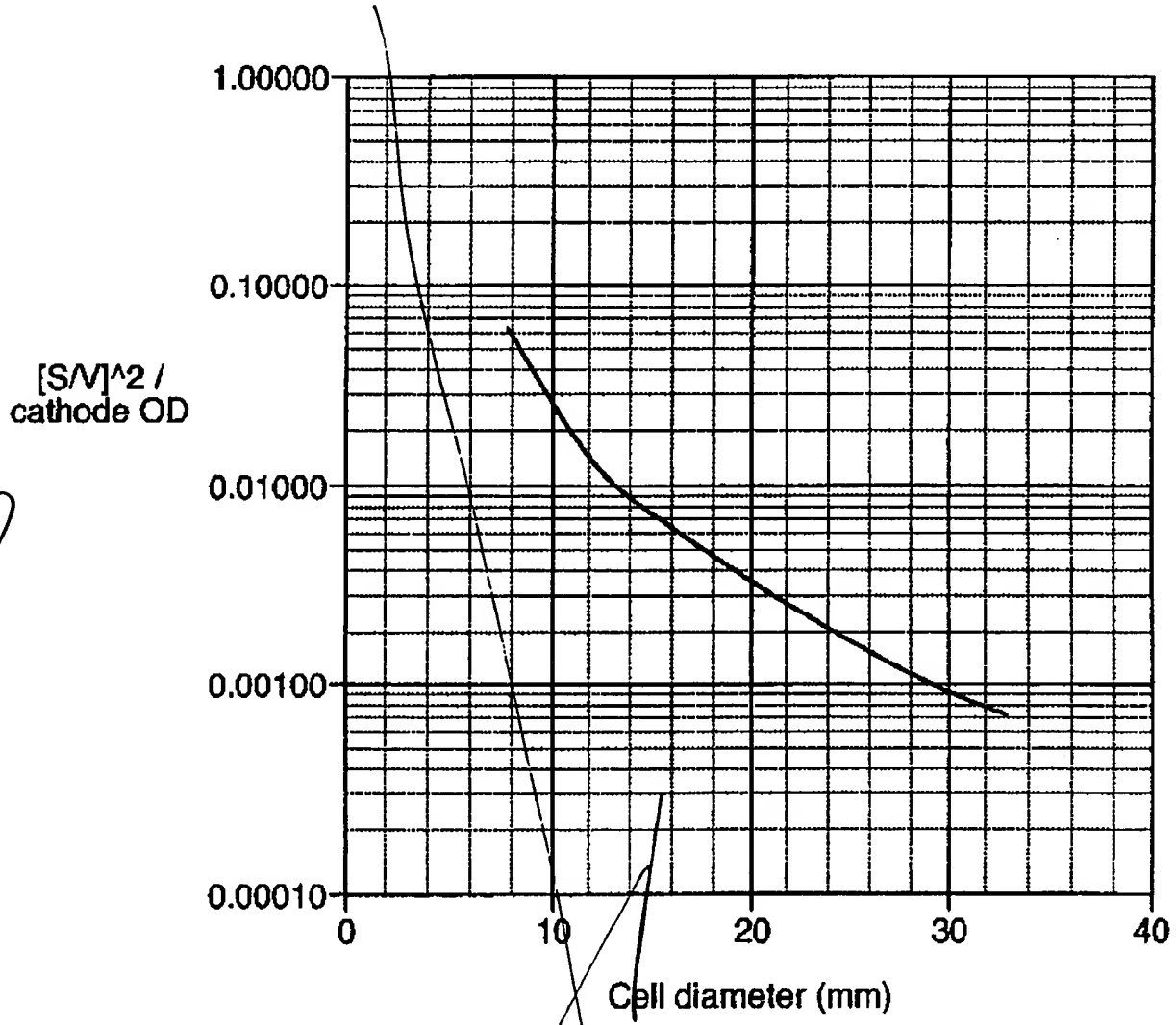
a housing;

a first electrode within the housing;

a second electrode within the first electrode, the second electrode consisting essentially of a single cavity; and

a separator between the first electrode and the second electrode;

wherein the battery has a $(S/V)^2$ cathode OD v. cell diameter value at least 0.01 mm^{-3} above a curve in the plot below:



52. (Amended) The battery of claim 51, wherein the battery has a $(S/V)^2$ cathode OD v. cell diameter value at least 0.02 mm^{-3} above the curve.

53. (Amended) A battery comprising:

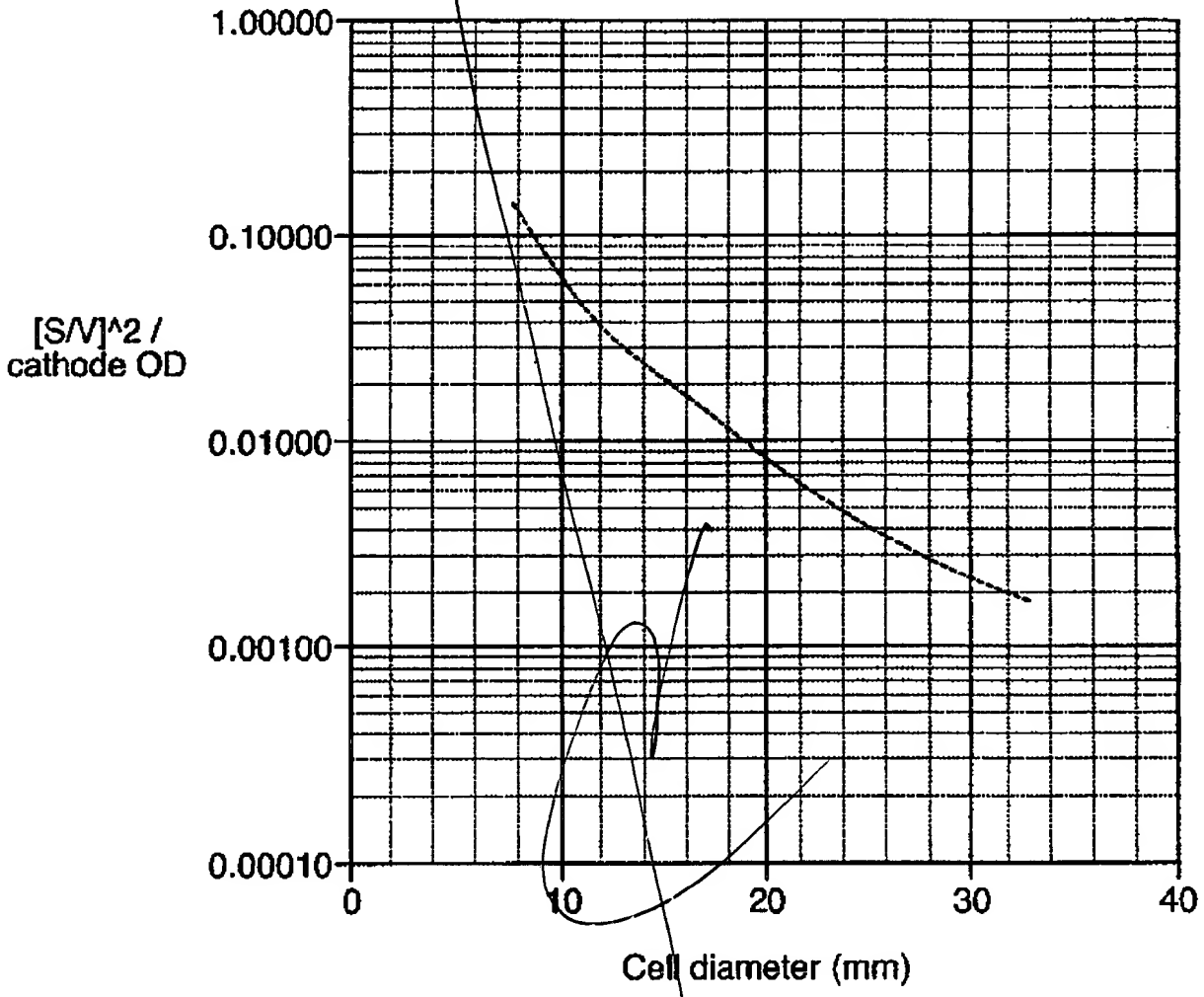
a housing;

a first electrode within the housing;

a second electrode within the first electrode; and

a separator between the first electrode and the second electrode;

wherein the battery has a $(S/V)^2$ cathode OD v. cell diameter value at least 0.01 mm^{-3} above a curve in the plot below:



54. (Amended) The battery of claim 53, wherein the battery has a $(S/V)^2$ cathode OD v. cell diameter value at least 0.01 mm^{-3} above the curve.